

detecting a need for assisting the user with input for a source code module under development;

determining a current cursor position representing a location in the source code module where the user is currently providing input;

determining input items which are suitable for input in the source code module at the current cursor position;

displaying to the user a list of said suitable input items; and

in response to selection by the user of a particular item from the list, automatically completing input at the current cursor position;

wherein said detecting step includes:

determining instances in the source code module where the system can automatically provide input; and

wherein said detecting step includes:

determining in the source code module use of a structure variable which references a nested data member.

#### 8. - 9. --CANCELLED--

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10. (Amended) In a development system, a method for assisting a user with inputting source code for a computer program, the method comprising:

detecting a need for assisting the user with input for a source code module under development;

determining a current cursor position representing a location in the source code module where the user is currently providing input;

determining input items which are suitable for input in the source code module at the current cursor position;

displaying to the user a list of said suitable input items; and

in response to selection by the user of a particular item from the list, automatically completing input at the current cursor position;

2 wherein said current cursor position comprises a line number and a column position for a particular source code file.

[ ] 11. --CANCELLED--

3. (Amended) In a development system, a method for assisting a user with inputting source code for a computer program, the method comprising:

detecting a need for assisting the user with input for a source code module under development;

determining a current cursor position representing a location in the source code module where the user is currently providing input;

determining input items which are suitable for input in the source code module at the current cursor position;

displaying to the user a list of said suitable input items; and

in response to selection by the user of a particular item from the list, automatically completing input at the current cursor position;

wherein said step of determining input items which are suitable for input in the source code module includes:

determining which variables are within scope for the current cursor position; and

eliminating as a suitable input item any item that is not within scope for the current cursor position; and

wherein said step of compiling the source code module up to the current cursor position includes:

skipping compilation of any method defined in the source code unless the cursor is currently positioned within the method.

5

4. (Amended) In a development system, a method for assisting a user with inputting source code for a computer program, the method comprising: